

auxiliary transmitter or auxiliary antenna.

(6) For testing, upon the request of representatives of the FCC.

(b) Authorization to install an auxiliary transmitter for use with other than the main antenna or authorized auxiliary antenna must be obtained by filing an application for a construction permit on FCC form 301 (FCC form 340 for noncommercial educational stations).

(c) The following technical and operating standards apply to auxiliary transmitters:

(1) The auxiliary transmitter may be operated on only the station's authorized frequency and within the required carrier frequency departure tolerance for the type of station.

(2) The carrier frequency of the auxiliary transmitter must be measured as often as necessary to ensure that it is maintained within the prescribed tolerance.

(3) When using an auxiliary transmitter, the operating power may be less than the authorized power but may not exceed the authorized power within the permitted tolerance for the type of station. If operation with an auxiliary transmitter at reduced power continues for a period exceeding 10 days, the FCC in Washington, DC must be notified. (See § 73.51, AM; § 73.267, FM; § 73.567, NCE-FM; and § 73.663, TV).

(4) Normal operator requirements apply to the operation of the auxiliary transmitter.

NOTE: After January 1, 1979, new licenses will not be issued nor will existing licenses be renewed for auxiliary transmitters that are operated into the main antenna system.

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 48 FR 36463, Aug. 11, 1983; 48 FR 42960, Sept. 20, 1983; 48 FR 44806, Sept. 30, 1983; 50 FR 32417, Aug. 12, 1985; 51 FR 32088, Sept. 9, 1986]

§ 73.1675 Auxiliary antennas.

(a)(1) An auxiliary antenna is one that is permanently installed and available for use when the main antenna is out of service for repairs or replacement. An auxiliary antenna may be located at the same transmitter site as the station's main antenna or at a separate site. The service contour of the auxiliary antenna may not extend

beyond the following corresponding contour for the main facility:

(i) AM stations: The 0.5 mV/m field strength contours.

(ii) FM stations: The 1.0 mV/m field strength contours.

(iii) TV stations: The Grade B coverage contours.

(iv) Class A TV stations: The protected contours defined in § 73.6010.

(2) An application for an auxiliary antenna for an AM station filed pursuant to paragraphs (b) or (c) of this section must contain a map showing the 0.5 mV/m field strength contours of both the main and auxiliary facilities.

(b) An application for a construction permit to install a new auxiliary antenna, or to make changes in an existing auxiliary antenna for which prior FCC authorization is required (see § 73.1690), must be filed on FCC Form 301 (FCC Form 340 for noncommercial educational stations).

(c)(1) Where an FM, TV or Class A TV licensee proposes to use a formerly licensed main facility as an auxiliary facility, or proposes to modify a presently authorized auxiliary facility, and no changes in the height of the antenna radiation center are required in excess of the limits in § 73.1690(c)(1), the FM, TV or Class A TV licensee may apply for the proposed auxiliary facility by filing a modification of license application. The modified auxiliary facility must operate on the same channel as the licensed main facility. An exhibit must be provided with this license application to demonstrate compliance with § 73.1675(a). All FM, TV and Class A TV licensees may request a decrease from the authorized facility's ERP in the license application. An FM, TV or Class A TV licensee may also increase the ERP of the auxiliary facility in a license modification application, provided the application contains an analysis demonstrating compliance with the Commission's radiofrequency radiation guidelines, and an analysis showing that the auxiliary facility will comply with § 73.1675(a). Auxiliary facilities mounted on an AM antenna tower must also demonstrate compliance with § 73.1692 in the license application.

(2) Where an AM licensee proposes to use a former licensed main facility as

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an auxiliary facility with an ERP less than or equal to the ERP specified on the former main license, the AM station may apply to license the proposed auxiliary facility by filing a modification of license application on Form 302-AM. The proposed auxiliary facilities must have been previously licensed on the same frequency as the present main facility. The license application must contain an exhibit to demonstrate compliance with § 73.1675(a).

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 45 FR 26066, Apr. 17, 1980; 50 FR 13974, Apr. 9, 1985; 62 FR 51060, Sept. 30, 1997; 63 FR 70049, Dec. 18, 1998; 65 FR 30005, May 10, 2000]

§ 73.1680 Emergency antennas.

(a) An emergency antenna is one that is erected for temporary use after the authorized main and auxiliary antennas are damaged and cannot be used.

(b) Prior authority from the FCC is not required by licensees and permittees to erect and commence operations using an emergency antenna to restore program service to the public. However, an informal letter request to continue operation with the emergency antenna must be made within 24 hours to the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, within 24 hours after commencement of its use. The request is to include a description of the damage to the authorized antenna, a description of the emergency antenna, and the station operating power with the emergency antenna.

(1) *AM stations.* AM stations may use a horizontal or vertical wire or a non-directional vertical element of a directional antenna as an emergency antenna. AM stations using an emergency nondirectional antenna or a horizontal or vertical wire pursuant to this section, in lieu of authorized directional facilities, shall operate with power reduced to 25% or less of the nominal licensed power, or, a higher power, not exceeding licensed power, while insuring that the radiated field strength does not exceed that authorized in any given azimuth for the corresponding hours of directional operation.

(2) *FM, TV and Class A TV stations.* FM, TV and Class A TV stations may

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erect any suitable radiator, or use operable sections of the authorized antenna(s) as an emergency antenna.

(c) The FCC may prescribe the output power, radiation limits, or other operating conditions when using an emergency antenna, and emergency antenna authorizations may be modified or terminated in the event harmful interference is caused to other stations or services by the use of an emergency antenna.

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 50 FR 30948, July 31, 1985; 63 FR 33878, June 22, 1998; 65 FR 30005, May 10, 2000]

§ 73.1690 Modification of transmission systems.

The following procedures and restrictions apply to licensee modifications of authorized broadcast transmission system facilities.

(a) The following changes are prohibited:

(1) Those that would result in the emission of signals outside of the authorized channel exceeding limits prescribed for the class of service.

(2) Those that would cause the transmission system to exceed the equipment performance measurements prescribed for the class of service (AM, § 73.44; FM, §§ 73.317, 73.319, and 73.322; TV and Class A TV, §§ 73.682 and 73.687).

(b) The following changes may be made only after the grant of a construction permit application on FCC Form 301 for commercial stations or Form 340 for noncommercial educational stations:

(1) Any construction of a new tower structure for broadcast purposes, except for replacement of an existing tower with a new tower of identical height and geographic coordinates.

(2) Any change in station geographic coordinates, including coordinate corrections. FM, TV and Class A TV directional stations must also file a construction permit application for any move of the antenna to another tower structure located at the same coordinates. Any change which would require an increase along any azimuth in the composite directional antenna pattern of an FM station from the composite directional antenna pattern authorized (see § 73.316), or any increase from the